

ABSTRACT

5 A heat roller has a cylindrical sheet-like heating  
element, an inner tube and an outer tube. The sheet-like  
heating element has a resistance member embedded into an  
insulating member. The outer tube has a non-linear shape  
seen in an axial direction. The heat roller is  
fabricated by supplying pressurized fluid to the inner  
tube for expanding the inner tube, sheet-like heating  
10 element and outer tube toward a die. The die has a non-  
linear inner shape seen in the axial direction.  
Therefore, the outer tube of the fabricated heat roller  
has a non-linear shape. Further, an edge section of the  
inner tube can simultaneously be formed into a desired  
15 shape.